## Index of Claims

Rejected

Allowed

09/683,088 Examiner

Matthew J Song

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CHU ET AL. Art Unit

1765

(Through numeral)

Cancelled

Restricted

Non-Elected N Interference

Appeal Α

Objected

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|----------|----------|----------|--------------|--------------|----------|---|--|----------|----------|----------|--------------|------------|----------|----------|----------|----------|----------|----------|---------------|---------|--------------|------|----------|------------|----------|---|----------|---|----|----------|----------|----------|---|
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|          |          |          | ,            | Т            | П        | T |  |          |          |          | _            |            |          |          |          |          | Ī        | Т        | Т             | Т       | П            |      |          | _          |          |   |          |   |    |          |          |          |   |
| ē        | Original | -        | 1 20/04      |              |          |   |  |          |          |          |              | 豆          | Original |          |          |          | - 1      |          |               | ł       | 1 1          |      | a l      | Original   |          |   |          |   |    |          |          | - [      |   |
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|          | 0        | V        | 7            | ł            |          |   |  |          |          |          | - 1          |            | 0        |          |          |          |          |          |               |         |              |      |          | 0          |          |   |          |   |    |          |          |          |   |
|          | 1        | 7        |              | T            | ╗        |   |  |          |          |          | _            |            | 51       |          |          |          | T        |          |               |         | 1            |      |          | 101        |          |   |          |   | _  |          |          |          |   |
|          | 2        | ,        | Т            | Т            | ヿ        |   |  |          |          |          | 7            |            | 52       |          | $\neg$   | _        |          |          |               |         | П            |      |          | 102        |          |   |          |   |    |          |          | $\neg$   |   |
|          | 3        | IT       | T            | 1            | T        |   |  |          |          |          |              |            | 53       | П        |          |          | T        | T        | T             |         |              |      |          | 103        |          |   |          |   |    |          |          | T        |   |
|          | 4        | Ħ        | T            | Т            |          |   |  |          |          |          |              |            | 54       |          |          |          | T        | T        |               | T       |              |      |          | 104        |          |   |          |   |    |          |          | _1       |   |
|          | 5        | I        | Τ            | Т            | T        |   |  |          |          |          |              |            | 55       |          |          |          |          |          |               |         |              |      |          | 105        |          |   |          |   |    |          |          |          |   |
|          | 6        | П        | Ι            |              |          |   |  |          |          |          |              |            | 56       |          |          |          |          | $\Box$   |               | $\perp$ |              |      |          | 106        |          |   |          |   |    |          |          |          |   |
|          | 7        | П        | Ι            |              |          |   |  |          |          |          |              |            | 57       |          |          |          |          | $\Box$   |               |         |              |      |          | 107        |          |   |          |   |    |          |          |          |   |
|          | 8        | Ц        | 1            | 1            | _        |   |  |          |          |          | Ш            |            | 58       | Ш        |          |          |          | _        |               | _       | Ш            |      |          | 108        |          |   |          |   |    |          | _        | _        |   |
|          | 9        | Ц        | _            |              |          |   |  |          |          |          | Ш            |            | 59       | Ш        |          |          | $\perp$  | _        | $\perp$       |         | Ш            |      |          | 109        |          |   | Ш        |   |    |          | _        | _        |   |
|          | 10       | Ц        | 4            | 4            | _        |   |  | L        | <u></u>  |          | Ш            |            | 60       | Ш        |          | _        | _        | _        | _             | $\perp$ | $\perp$      |      |          | 110        |          |   |          |   |    | $\Box$   | _        |          |   |
|          | 11       | Ľ        | 1            | 4            | _        |   |  | Ш        |          | _        |              |            | 61       | Ш        | Ц        | _        | _        | _        | _             | _       | $\sqcup$     |      |          | 111        | Ш        | Ш | Ш        |   |    | Ш        | _        | _        |   |
| L        | 12       | ν        | 4            | 4            | _        | _ |  | Ш        |          | $\vdash$ | Ш            |            | 62       | Ш        | Ш        | _        | _        | _        | 4             | 4       | $\vdash$     |      | <u> </u> | 112        |          |   | Ш        |   |    |          | _        | 4        |   |
|          | 13       | L        | 4            | 4            | _        | _ | <u> </u>   | Ш        | -        | $\vdash$ | Ш            | _          | 63       | Ш        | Ш        | _        | 4        | 4        | 4             | $\perp$ | $\downarrow$ |      | Ш        | 113        | $\vdash$ |   | Ш        | ш |    | Ш        | -        | _        |   |
|          | 14       | L        | +            | 4            | _        | _ | _  | <u> </u> | _        | ┡-       |              |            | 64       | Н        | Н        | -        | 4        | -        | +             | +       | $\vdash$     |      |          | 114        | Н        |   |          |   |    |          | -        | _        |   |
| $\vdash$ | 15       | $\vdash$ | +            | +            | 4        | 4 |  | -        | -        | ├        |              | -          | 65       | Н        | $\vdash$ |          | -+       | +        | +             | +       | +            |      | $\vdash$ | 115        | $\vdash$ | Н | Н        | Н | Н  | Н        | $\dashv$ | $\dashv$ | _ |
| <u> </u> | 16       | ⊢        | +            | +            | $\dashv$ | - | -  | -        | -        | -        | $\dashv$     | -          | 66       | $\vdash$ | $\vdash$ |          |          | -        | +             | +       | +            |      | $\vdash$ | 116        | $\vdash$ | Н | $\vdash$ | Н | Н  | Н        | $\dashv$ | $\dashv$ |   |
| <u> </u> | 17       | ┝        | +            | +            | -        |   | $\vdash$   | $\vdash$ | $\vdash$ | $\vdash$ | $\dashv$     | -          | 67       | Н        | $\vdash$ | $\dashv$ | $\dashv$ | +        | +             | +-      | +            |      | $\vdash$ | 117<br>118 | -        | - | -        | Н |    | Н        | $\dashv$ | $\dashv$ |   |
| $\vdash$ | 18       | H        | +            | +            | $\dashv$ | _ | _  | ⊢        | _        | ⊢        | -            |            | 68<br>69 | Н        | -        | -+       | $\dashv$ | $\dashv$ | +             | +       | +            |      |          | 119        | Н        |   | Н        | Н | Н  | $\vdash$ | $\dashv$ | $\dashv$ |   |
|          | 19       | H        | +            | +            | $\dashv$ | - | $\vdash$   |          |          | ⊢        | $\dashv$     | -          | 70       | Н        | Н        |          | -        |          | +             | +       | +            |      |          | 120        | Н        |   | H        |   | Н  | $\vdash$ | $\dashv$ | $\dashv$ |   |
|          | 20       | H        | +            | +            |          |   | H  |          |          | ⊢        | $\dashv$     | -          | 71       | Н        | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +             | +-      | ╁            |      |          | 121        | Н        |   | -        |   | -  | $\vdash$ | $\dashv$ | $\dashv$ |   |
|          | 22       | H        | +            | +            | $\dashv$ | _ | ├  | ⊢        | -        | ├        | $\dashv$     | -          | 72       | H        | H        | $\dashv$ | +        | $\dashv$ | +             | +       | +            |      | $\vdash$ | 122        | H        | - | H        |   | -  |          | -        | -        |   |
|          | 23       | H        | +            | +            | $\dashv$ |   | ⊢  | -        | -        | ⊢        | $\mathbf{H}$ |            | 73       | Н        | Н        | $\dashv$ | $\dashv$ | $\dashv$ | +             | +       | +            |      | Н        | 123        | Н        |   | Н        | _ | Н  |          | $\dashv$ | $\dashv$ | _ |
|          | 24       | ┝        | +            | +            | $\dashv$ | _ | ⊢  | $\vdash$ | H        | ⊢        | $\vdash$     | -          | 74       | -        | -        |          | -+       | -+       | -             | +       | +            |      | $\vdash$ | 123        | Н        |   | Н        |   | Н  |          | $\vdash$ | $\dashv$ | _ |
| $\vdash$ | 25       | H        | +            | +            | $\dashv$ |   | ⊢  | ┝        | ⊢        | ┼        | Н            | -          | 75       |          | Н        | $\dashv$ | $\dashv$ | $\dashv$ | +             | +       | +            |      |          | 125        | Н        |   | H        |   |    | $\vdash$ | -        |          | _ |
| $\vdash$ | 26       | Н        | +            | +            | $\dashv$ |   | $\vdash$   | ⊢        | $\vdash$ | $\vdash$ | Н            |            | 76       |          | -        |          | -+       | +        | +             | +       | +            |      |          | 126        | Н        |   | H        |   |    |          | $\vdash$ | _        | _ |
|          | 27       | ┝        | +            | +            | $\dashv$ |   | $\vdash$   |          |          | $\vdash$ | $\mathbf{H}$ | -          | 77       |          | Н        | $\dashv$ | +        | -+       | +             | ╅       | +-           |      |          | 127        | Н        |   | -        | _ | Н  | $\dashv$ | $\dashv$ |          | _ |
|          | 28       | ┝        | +            | +            | -        | - | ⊢  | -        | -        | $\vdash$ | $\dashv$     | -          | 78       | Н        | Н        | $\dashv$ | +        | $\dashv$ | +             | +       | $\vdash$     |      | $\vdash$ | 128        | Н        |   | $\vdash$ | - | -  | _        | -        | -        | - |
|          | 29       | Н        | +            | +            | $\dashv$ |   | ⊢  | $\vdash$ | -        | -        |              |            | 79       |          | Н        | -        | $\dashv$ | $\dashv$ | $^+$          | +       | +            |      |          | 129        | Н        |   | Н        | - | -  | Н        | $\dashv$ | $\dashv$ | _ |
|          | 30       | ⊢        | +            | +            | $\dashv$ |   | Н  | $\vdash$ | ┪        | $\vdash$ | $\dashv$     | -          | 80       | -        | $\vdash$ | -        | -        | -        | +             | +       | +            |      |          | 130        | Н        |   | Н        | Н | Н  | Н        | $\dashv$ | $\dashv$ | _ |
|          | 31       | ┢        | $^{+}$       | +            | -        | _ |  | ┿        | ┰        | ╁        | -            | -          | 81       |          | $\vdash$ | $\dashv$ | $\dashv$ | $\dashv$ | +             |         | 1            |      |          | 131        | Н        |   |          |   |    | Н        | -        | -        | _ |
| <u> </u> | 32       | H        | $^{+}$       | $^{\dagger}$ |          |   | $\vdash$   | H        | $\vdash$ |          | $\dashv$     |            | 82       | $\vdash$ | Н        |          | $\dashv$ | 1        | +             | $\top$  | +            |      | $\vdash$ | 132        | Н        |   | Н        | Н | Н  | Н        | _        |          | _ |
| _        | 33       | H        | +            | 7            | $\neg$   | _ | H  | H        |          | t        | $\dashv$     |            | 83       |          | Н        |          | _        | +        | _             |         | +-           |      | $\vdash$ | 133        | П        |   |          |   | Г  |          | $\neg$   | $\neg$   | _ |
| <u> </u> | 34       | Τ        | $^{\dagger}$ | 7            | -        | _ | <del>                                     </del> | <u> </u> | T        | T        | $\Box$       |            | 84       |          | П        | $\vdash$ | _        | $\dashv$ | T             | $\top$  |              |      |          | 134        | М        | _ |          |   | _  |          | $\neg$   | $\neg$   | _ |
|          | 35       | T        | +            | 7            |          |   | T  | Т        |          | t        | $\vdash$     |            | 85       | П        | П        |          | $\dashv$ | _        | $\top$        | $\top$  |              |      |          | 135        | П        |   | П        | П | Г  |          |          |          | _ |
|          | 36       | T        | +            | 7            | $\neg$   |   |  |          |          | T        |              |            | 86       |          |          |          | _        | _        | _             | +       | т            |      |          | 136        | П        |   |          |   |    |          | П        |          | _ |
|          | 37       | Τ        | +            | 7            | $\neg$   |   |  |          |          |          | П            |            | 87       |          | П        | $\Box$   | $\neg$   | $\neg$   | T             | T       | $\top$       |      |          | 137        | П        | Г | П        | П | Г  |          | $\Box$   | $\neg$   | _ |
|          | 38       | Τ        | 1            | 7            |          |   |  |          | Г        | Т        | П            |            | 88       | Г        |          | $\Box$   | $\dashv$ | _        | _             |         | $\top$       |      |          | 138        | П        |   | П        | П | Г  | П        | П        |          | _ |
|          | 39       | T        | $^{\dagger}$ | 7            |          |   | _  | 1        | Г        | T-       |              | -          | 89       | П        | П        |          | T        | _        | 1             | 1       |              |      |          | 139        | П        | Г |          | П | Γ  |          |          |          |   |
|          | 40       | T        | T            | 7            |          |   | Г  | Г        | Г        | Т        |              |            | 90       | Т        | П        |          | $\neg$   | 7        | 1             | T       | П            |      |          | 140        | П        |   |          |   |    |          | T        |          | Т |
|          | 41       | T        | ✝            | 7            |          |   | Г  | 1        |          |          |              |            | 91       |          | П        | $\Box$   | 寸        | $\dashv$ | 十             | 1       | 1            |      |          | 141        | П        |   | П        | П | Г  |          | П        | $\neg$   | _ |
|          | 42       | T        | T            | 7            |          |   | Г  | t        | Т        | Π        |              |            | 92       |          | П        |          |          | 7        | T             | T       |              |      |          | 142        |          |   |          |   |    |          |          |          | _ |
|          | 43       | Ī        | T            | T            |          |   | Г  | 1        |          | 1        |              |            | 93       |          |          |          | ╛        | $\neg$   |               |         | 1            |      |          | 143        |          | _ |          |   | Γ_ |          |          |          |   |
|          | 44       | Γ        | T            | T            |          |   |  |          |          |          | П            |            | 94       | _        |          |          | 寸        |          |               |         |              |      |          | 144        |          |   |          |   |    |          |          |          |   |
|          | 45       | Ī        | Т            | 7            |          |   | Г  | T        | Г        | 1        |              |            | 95       |          |          |          | $\neg$   | 寸        | T             | 1       |              | 1    |          | 145        |          |   |          |   |    |          | П        | П        |   |
|          | 46       |          | T            | 7            |          |   | П  |          | Г        | П        | П            |            | 96       |          | П        | П        | 7        | _        |               |         |              |      |          | 146        |          |   |          |   |    |          |          |          | _ |
|          | 47       | T        | 7            | 7            |          | _ | Г  | 1        | Т        | 1        | $\Box$       |            | 97       | П        | П        | П        | 一        | T        | $\neg \vdash$ | _       | 1            |      |          | 147        | П        | Г | Г        |   |    |          | П        |          | _ |
|          | 48       |          | T            | 7            |          |   | П  |          |          | П        |              |            | 98       |          |          |          |          |          |               | $\top$  |              |      |          | 148        |          |   |          |   |    |          |          |          | Ξ |
|          | 49       | T        | $\top$       | ┪            |          |   | Г  | Γ        | Г        | Т        | П            |            | 99       | Г        |          | П        | $\neg$   | 寸        | T             | $\top$  | 1            |      |          | 149        |          |   |          | Г | _  |          |          |          |   |
|          | 50       | Γ        | T            | 7            |          |   | 1  | Τ-       |          | Г        |              |            | 100      | Г        | П        |          | 7        | 7        |               |         | T            | 1    |          | 150        | Г        | T |          |   |    |          |          |          | Г |
|          |          | ٠        |              | -            |          | _ | _  |          | _        | _        | _            |            |          |          |          |          |          |          |               |         |              |      |          |            |          |   |          |   |    |          |          |          |   |